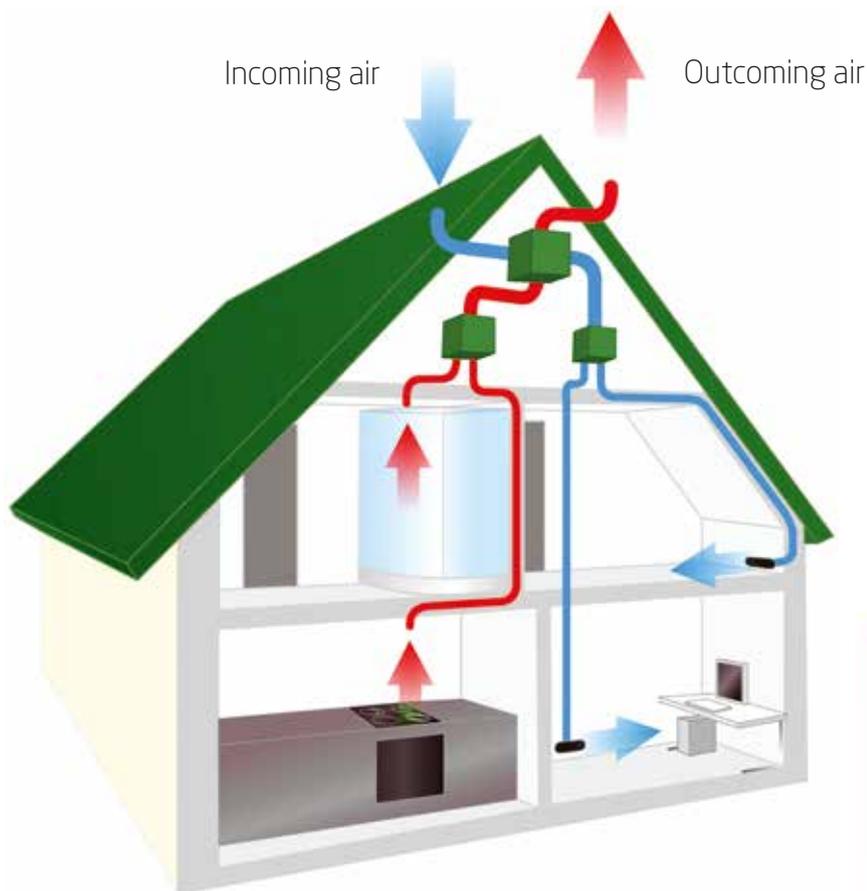




# ROD-VENT SYSTEM





## ROD-VENT SYSTEM

Ventilation pipes and plenum boxes are one of the basic elements of the mechanical ventilation system. They are intended to distribute air inside the building and therefore they make a significant contribution to ensure healthy and comfortable indoor conditions.

TT PLAST offers the ROD-VENT ventilation duct made of high-density polyethylene (HDPE) pipe with a smooth interior and corrugated exterior surface, perfect for air circulation in buildings.

Properly distributed ROD-VENT ventilation ducts run to the SR-VENT plenum boxes, whose task is to stabilise the air flow through reducing the flow velocity and evenly entering it to the diffuser or ventilation grille.



The entire ROD-VENT system which includes: ventilation ducts, plenum boxes, end caps, fittings, gaskets and o-rings has a Hygienic Certificate issued by the National Institute of Public Health - Department of Environmental Hygiene.



## ROD-VENT VENTILATION DUCTS

ROD-VENT ventilation ducts are manufactured from high quality primary raw materials, free from contamination, available in four versions:

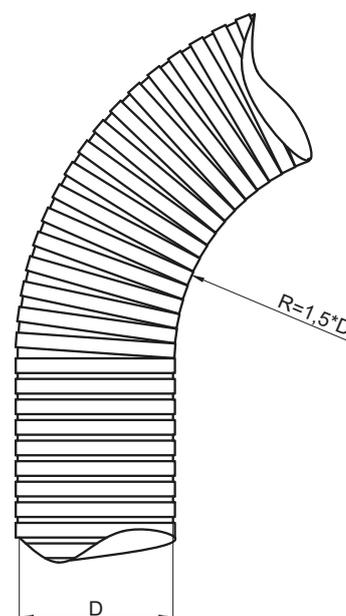
- ROD-VENT-VA pipe – with antibacterial and anti-static additive
- ROD-VENT-V pipe – with antibacterial additive
- ROD-VENT-VU pipe – with antibacterial and flame-retardant additive
- ROD-VENT-VX pipe – with anti-static additive



SIZE	SYMBOL			
	ROD-VENT-VA	ROD-VENT-VX	ROD-VENT-VU	ROD-VENT-V
<b>50/40-50</b>	11895	11903	11911	11917
<b>63/52-50</b>	11900	11908	11914	11922
<b>75/60-50</b>	11896	11904	11912	11918
<b>90/76-50</b>	11899	11907	11913	11921
<b>110/92-50</b>	11897	11905	11909	11919
<b>160/134-25</b>	11898	11906	11910	11920
<b>232/200-25</b>	11956	11955	11882	11881

TT PLAST ventilation ducts are characterized by optimal resistance to static loads and unique flexibility. The ventilation pipe may be installed in suspended ceilings, partition walls, floor slabs or concrete floors. Resistance to mechanical stresses and a wide range of temperatures allow to use different types of ROD-VENT ducts at various stages of construction.

Ventilation ducts with an anti-bacterial and anti-static coating meet the requirements of PN-EN 61340-5-3: 2015-11 Static electricity – Part 5-3: Protection of electronic devices against static electricity. This allows the product to be classified as electrostatic dissipating material, marking in accordance with PN-EN 61340-5-3: 2015-11 and to be used with objects sensitive to ESDS electrostatic discharge as a means of protection. The certificate was issued by the Central Mining Institute.



rys.1. Bending radius



## TECHNICAL SPECIFICATION OF VENTILATION CHANNELS - AIR FLOWS

Ø50									
Length L (m)	Stream Q (m <sup>3</sup> /h)	Speed v(m/s)	Average pressure loss (Pa)	Stream Q (m <sup>3</sup> /h)	Speed v(m/s)	Average pressure loss (Pa)	Stream Q (m <sup>3</sup> /h)	Speed v(m/s)	Average pressure loss (Pa)
2	13,902	3,03	3,7	11,495	2,5	1,3	9,207	2,01	1,8
4	13,934	3,03	8,5	11,534	2,51	6,2	9,143	1,99	6
6	13,837	3,01	17	11,562	2,52	10,5	9,262	2,02	10,3
8	13,823	3,01	26,5	11,551	2,52	17	9,198	2	16
10	13,879	3,02	40,7	11,552	2,52	23	9,171	2	19,2
12	13,936	3,03	49,7	11,585	2,52	30	9,145	1,99	25
14	13,847	3,02	58	11,54	2,51	34,3	9,128	1,99	30
16	13,856	3,02	69,2	11,596	2,53	43,2	9,17	2	32,2
18	13,905	3,03	82,3	11,575	2,52	49,5	9,102	1,98	37,2

Ø75									
Length L (m)	Stream Q (m <sup>3</sup> /h)	Speed v(m/s)	Average pressure loss (Pa)	Stream Q (m <sup>3</sup> /h)	Speed V(m/s)	Average pressure loss (Pa)	Stream Q (m <sup>3</sup> /h)	Speed V(m/s)	Average pressure loss (Pa)
2	35,88	3	11	29,65	2,48	6	23,73	1,99	7
4	35,83	3	15	29,67	2,48	11	23,79	1,99	7
6	36,19	3,03	17	29,66	2,48	13	23,77	1,99	9
8	35,98	3,01	30	29,88	2,5	20	23,79	1,99	14
10	36,04	3,02	40	29,62	2,48	27	23,88	2	16
12	35,89	3	45	30,06	2,52	32	23,72	1,99	20
14	35,79	3	49	30,13	2,52	36	23,64	1,98	23
16	35,87	3	57	29,87	2,5	45	24,06	2,01	32
18	35,48	2,97	67	30,1	2,52	52	24,14	2,02	31



## SR-VENT PLENUM BOX

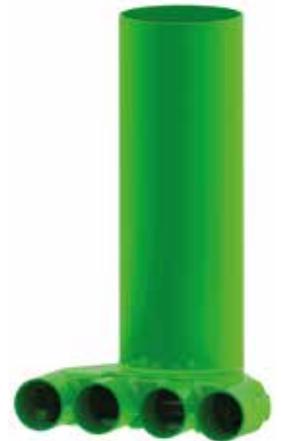
The compact TT PLAST SR-VENT plenum boxes made of plastic connect the ROD-VENT flexible ventilation duct with a diffuser. Plenum boxes SR-VENT are manufactured from primary polyethylene.

Plenum box SR-VENT characteristics:

- SR-VENT boxes have a wall thickness of 3 mm, thanks to which they are characterized by increased durability
- The construction is adapted for ceiling and floor mounting
- The SR-VENT box is integrated with the connection pipe of the diffuser.
- The set includes upper and lower mounting brackets for installation in all conditions – even on a vertical wall
- Press-fit diffuser installation – the set contains a gasket
- Positioning groove for mounting using steel strip, if needed
- Three options available: 4xØ50 mm, 2xØ75 mm and 1xØ90 mm



Nr.kat. 11867

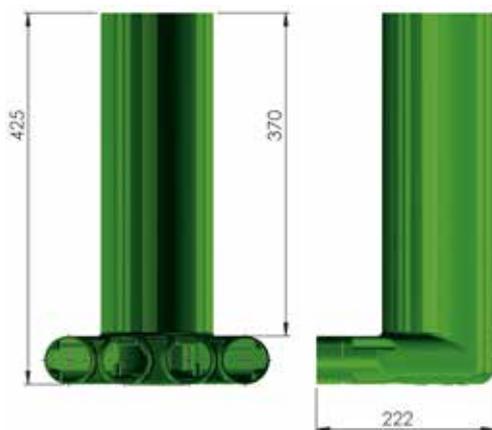


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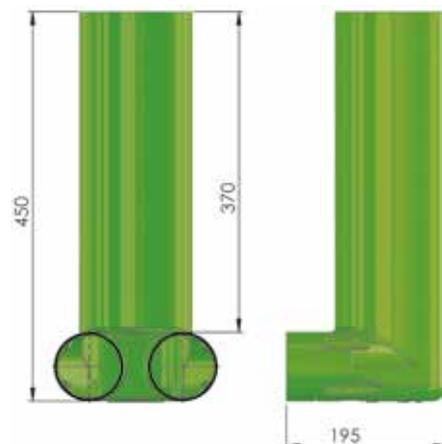


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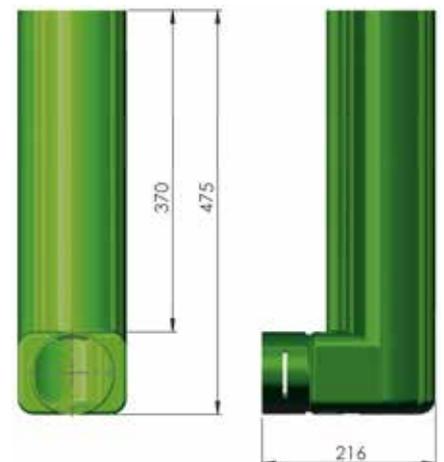
Ø50



Ø75



Ø90



## ACCESSORIES



Ø	Mounting brackets	O-ring	Cup	
			internal (for pipe)	external (for box)
Ø	Index	Index	Index	Index
50	11883	11887	10210	11894
75	11883	11885	10211	11846
90	11883	11888	11892	11893



Ø	Locking ring	Connector ZRD	Diffuser gasket URA
50		10202	11886
75	11868	10203	11886
90	11889	11639	11886

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